

# Joint Legislative Task Force

Foster Pilot Project Update  
Spanaway Water Company  
September 10, 2019

USGS Modeling of Surface / Ground  
Water for Mitigation  
Determinations in the  
Chambers/Clover Creek WRIA 12

# Spanaway's Project Goals

Use the updated USGS models to determine surface water impacts of additional withdrawals allowing:

1. Conversion of up to 2,000 acft of existing non-additive water rights to primary rights,
2. In kind, in time, but not necessarily in place mitigation water for modeled surface water impacts,
3. Mitigation completed in viable aquatic habitat areas for the improvement of salmonid fishery and related aquatic habitat,
4. Mitigation via acquired/retired existing right/s, groundwater streamflow augmentation, or possibly some out of kind measures.

# Brookdale GC Water Right Purchase

Two golf course water rights, 250 and 750 GPM with 156.8 acre foot of annual water right purchased and placed in temporary trust.

750 GPM right is collection gallery pond immediately next to Clover Creek.



Pond & Pump



Pump House & Creek

# Current Clover Creek Conditions

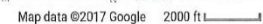
- Fisheries: All chinook captured at Chambers Creek dam, coho, steelhead, and cutthroat allowed to pass – 400 to 700 per year.
- Creek rerouted to asphalt bottomed flood control ditch in 1940s between 138<sup>th</sup> St E and eastern McChord AFB.
- Area west of Spanaway Loop Road, wet year round with Morey Creek, Spanaway Creek, and Morey Ponds and marshes as viable habitat.
- Clover Creek east of Spanaway Loop Road at 138<sup>th</sup> St E dry for the past 18 months.
- Pilot project goal is to improve salmonid habitat in the area to the west of Spanaway Loop Road



# The Clover Creek Area: McChordAFB is in the center







# Updated USGS Modeling Use

## Question:

What and where are impacts seen from the possible conversion of up to 2,000 acft/year of existing non-additive water rights to primary water rights?

## Process : (fall/winter 2019)

- Base line determined using existing authorized water rights.
- Model surface water impacts of potential withdrawals from deeper E and/or G aquifers.
- Determine whether quantitative impacts can feasibly be addressed.
- Evaluate preliminary potential for stream augmentation.

# Pilot Project Development (winter 2019/spring 2020)

If mitigation of impacts determined to be feasible:

- Continue participation in WRIA 12 Streamflow restoration and enhancement committee
- Consultation process with project team:
  - Departments of Ecology and Fish and Wildlife,
  - Puyallup, Nisqually and Squaxin Tribes,
  - All related fisheries/habitat biologists,
  - WRIA 12 Streamflow Restoration and Enhancement Committee,
  - Other interested stakeholders.
- Prepare mitigation package based on consultation process.

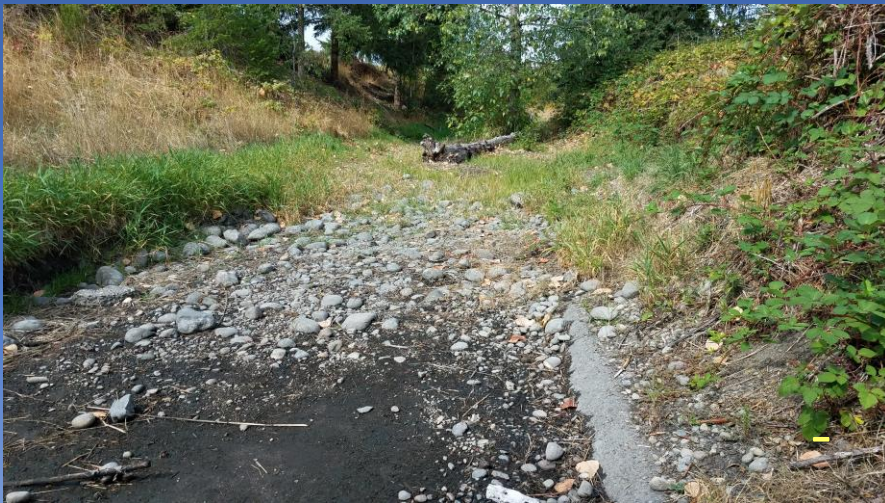


# Goal for Mitigation in Viable Area

Parkland Prairie restoration Project - remove asphalt liner, meander creek bed, install large woody debris.

- Problem, no water in the creek and if any water is present, acknowledged it now drains into the ground.

## - Incoming Creek

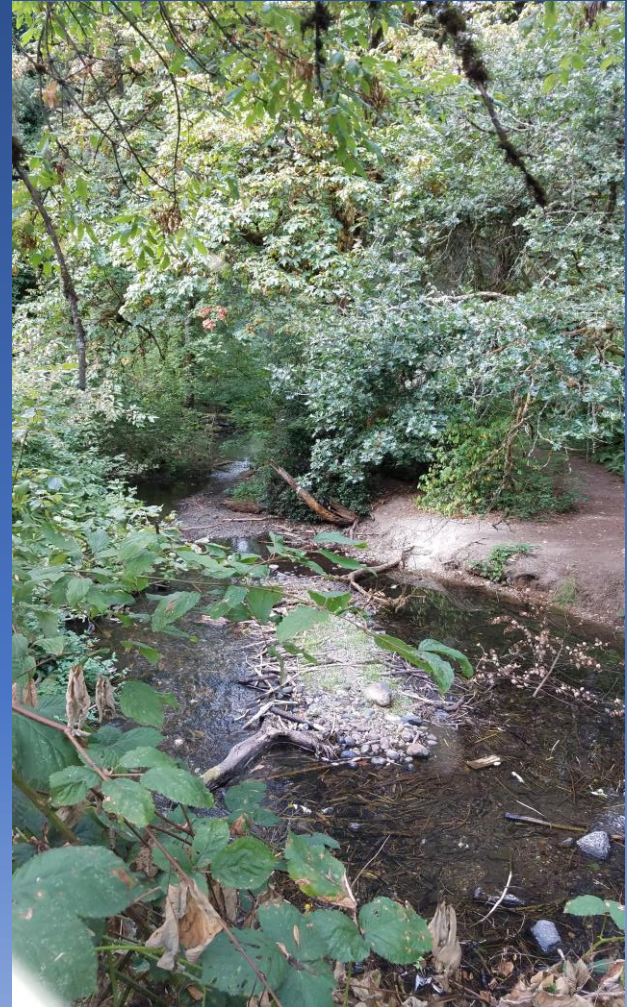


Restoration Project



# Goal for Mitigation in Viable Area

Spanaway Creek at outlet of Spanaway Lake & Military Road  
- Viable habitat with possible streamflow augmentation.



# Pilot Project Development (spring/summer 2020)

- Determine scope of Cost Reimbursement Agreement with DOE and execute CRA.
- Peer review of model process and proposed mitigation package.
- Draft Report of Examination prepared for consultation team review.

(summer/fall 2020)

- Water right application submitted to Dept. of Ecology.
- Dept. of Ecology process of application in compliance with ESSB 6091.



??? Questions ???

*Thank You*

*Jeff Johnson*

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# Clover Creek at Spanaway Loop Road – West Side



West Side April 11, 2017





# Clover Creek at Spanaway Loop Road – West Side



1967 Stream  
Channel Relocated



West Side  
June 7, 2018



# Clover Creek at SR7 (Pacific Ave.) – East Side



East Side  
April 11, 2017





# Clover Creek east of Spanaway Loop Road

East Side of SR7 —  
October 16, 2017



West Side  
C St S  
at 131<sup>st</sup> St E  
— June 7, 2018

